

PERMIT TO CONSTRUCT

SC-100

mailed to
L. 3/13/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-1

PINE HAVEN WATER SYSTEM CHLORINATION
(Name of Facility)

This permit hereby authorizes the applicant:

Harwood Frank
(Last) (First) (Middle)

c/o Timm & Associates

P.O. Box 726

(Street or P.O. Box)

Gillette Wyoming 82716
(City) (County) (State)

to construct, install, or modify a chlorination

facility located in Section 5, T.50N., R.66W.

(Legal Description)

in the County of Crook, in the State of
Wyoming. This permit shall be effective for a period of one (1) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William R. Gailard
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

March 9, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

C.C. NELSON ENGINEERING
P.O. BOX 1141
JACKSON, WYO. 83001
ATTN: MICKEY YAMASHIRO, P.E.

PERMIT TO CONSTRUCT

☐ New
☐ Renewal
☒ Modified

Permit No. 79-2R

WAMSUTTER SEWAGE TREATMENT IMPROVEMENTS OF 1979

(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF WAMSUTTER

(Last)

(First)

(Middle)

P.O. BOX 6

(Street or P.O. Box)

WAMSUTTER, WYO.

82336

(City)

(County)

(State)

to construct, install, or modify a SEWER LINE, LIFT STATION, FORCE MAIN AND LAGOONS
facility located in SEC. 26, T20N R94W
(Legal Description)

in the County of SWEETWATER, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gabel
Administrator
Water Quality Division

Robert E. Surdin
Director
Wyoming Dept. of Environmental Quality

MARCH 15, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

880

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: WAMSUTTER SEWAGE TREATMENT IMPROVEMENTS
TOWN OF WAMSUTTER
P.O. BOX 6, WAMSUTTER, WYO. 82336

ARCHITECT OR ENGINEER: MICKEY M. YAMASHIRO, P.E.

NELSON ENGINEERING
P.O. BOX 1141
JACKSON, WYO. 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-2

REVIEWING ENGINEER: ^{DWH} DAVID W. HILL

DATE OF REVIEW: JANUARY 30, 1979

ACTION: NOT AUTHORIZED

COMMENTS: LAGOON

1. Are channels to be formed in all inlet structures?
2. The specifications say that all stripped areas shall be scarified and recompacted. Does this specification include lagoon bottom scarification and recompaction? It's not clear.
3. Will pond-freeze-over disturb or break the PVC siphon tubes?
4. An effluent flow measurement structure will be needed in the future before any discharge takes place.
5. The check valves and plug valves should be located outside of the wetwell.
6. Does a man have to enter the wet well every time the catch basket needs emptying? Provisions should be made to remove and replace the catch basket without a man having to enter the wet well.
7. If the catch basket is not emptied regularly, will it back up the flow enough to flood out the Palmer-Bowlus flume?
8. In one place, the specifications on standby power indicates that the engine will run on natural gas and in another place it indicates a diesel engine. Which is it?
9. What type of diffuser is used to aerate the force man (if any)?
NORTH COLLECTION LINE LINE
10. Deflection testing specifications are needed for the PVC sewer pipe.
11. Using skids on the PVC pipe in the casing ten feet apart seems excessive. The skids should be spaced closer together to prevent any bowing of the pipe.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed
to L.
1/15/79

☒ New

☐ Renewal

☐ Modified

Permit No. 79-3

DAVIS OIL SANITARY FACILITIES (CAMP NO. 1)

(Name of Facility)

This permit hereby authorizes the applicant:

DAVIS OIL COMPANY

(Last)

(First)

(Middle)

1424 TENTH ST.

(Street or P.O. Box)

ROCK SPRINGS

WYO

82901

(City)

(State)

(Zip Code)

to construct, install, or modify a SEPTIC TANK-LEACH FIELD

facility located in SEC36 T24N R97W

(Legal Description)

in the County of SWEETWATER, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Moore
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

JANUARY 9, 1979
Date of Issuance
HARRY L. MOORE
P.O. BOX 1633
ROCK SPRINGS, WYO. 82901

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed to
L 1/15/79

☒ New

☐ Renewal

Permit No. 79-4

☐ Modified

DAVIS OIL SANITARY FACILITIES (GAMP NO. 2)

(Name of Facility)

This permit hereby authorizes the applicant:

DAVIS OIL COMPANY

(Last)

(First)

(Middle)

1424 TENTH ST.

(Street or P.O. Box)

ROCK SPRINGS

WYO.

82901

(City)

(State)

(Zip Code)

to construct, install or modify a SEPTIC TANK - LEACH FIELD

facility located in SEC 36 T25N R97W

(Legal Description)

in the County of SWEETWATER, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Jones
Administrator
Water Quality Division

Robert E. Sordin
Director
Department of Environmental
Quality

JANUARY 9, 1979.

Date of Issuance

HARRY L. MOORE
P.O. BOX 1633
ROCK SPRINGS, WYO. 82901

mailed
1/22/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-5

East Amoco Addition

(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities

(Last)

(First)

(Middle)

200 North David

(Street or P.O. Box)

Casper

Natrona

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a Water Distribution & Sewage Collection

facility located in City of Casper

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galar
Administrator
Water Quality Division

Robert E. Surdin
Director
Wyoming Dept. of Environmental Quality

January 10, 1979

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

FH mailed
2/13/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-6

K-Mart Mountain Plaza Addition
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities
(Last) (First) (Middle)

200 North David
(Street or P.O. Box)

Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in City of Casper
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 29, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

Books
M-8-7-79

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-7RR

☐ Renewal

☐ Modified

Saratoga Water Treatment Plant

(Name of Facility)

This permit hereby authorizes the applicant:

Davis,

Howard

V.C., Mayor

(Last)

(First)

(Middle)

Town of Saratoga
P.O. Box 486

(Street or P.O. Box)

Saratoga,

Carbon,

WY. 82331

(City)

(County)

(State)

to construct, install, or modify a backwash wastewater system

facility located in Sec. 11, T17N, R85W

(Legal Description)

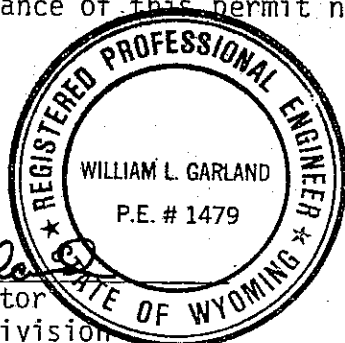
in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of two (2) years

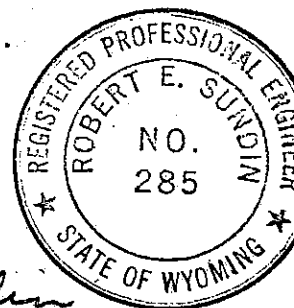
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



July 26, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

Book
M
5-22-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Saratoga, Backwash Wastewater System, Carbon Co.

ARCHITECT OR ENGINEER: Western Engineers & Architects, 501 N. Sun Dr.,
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-7R

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E., M.S.

DATE OF REVIEW: May 18, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

In accordance with our telephone conversation of May 18, 1979 with Mr. Barry Venn of Western Engineers & Architects, revisions to the plans will be submitted to this Division covering the following required changes in connection with the ventilation system for the manhole lift station:

- a. Provide for the introduction of fresh air into the lift station rather than exhausting air.
- b. Redesign the wiring so that the switch which controls the ventilating fan also controls the only source of power for lighting the wet well.

Please submit an application for a Permit to Construct on the above referenced project.

mailed
2-1-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Saratoga, Backwash Water Waste System, Saratoga, WY 82331
Carbon County

ARCHITECT OR ENGINEER: Western Engineers & Architects, 501 N. Sun Drive,
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-70

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E., M.E.; Jake Strohman, P.E.

DATE OF REVIEW: 1/15/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans shall bear the seal or signature of the designing engineer who is a registered engineer in the State of Wyoming.
2. The lift station shall not be subject to flooding.
3. The electrical system & components in the manhole lift station shall comply with the National Electrical Code requirements for Class I, Division I locations.
4. Remove the electrical outlet from the manhole lift station.
5. In lieu of providing adequate fresh air ventilation for the manhole lift station the following shall be accomplished:
 - a. Provide means for disconnecting the pump and removing without entering the wet well.
 - b. Remove all valves from the wet well and re-locate where they will be accessible.
6. Provide an alarm system which will be activated in case of lift station power failure, pump failure, or any other cause of pump station malfunction.
7. Provide a second pump for installation in case of failure of the lift station pump in place.
8. To assure a cleansing velocity of 2 feet per second the diameter of the force main should be limited to 3 inches.
9. It is recommended that a flap gate be provided at the discharge end of the force main.

Book
mailed
4-13-79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-8

Hansen Bldg. Specialties

(Name of Facility)

This permit hereby authorizes the applicant:

Spiva Backhoe

(Last) (First) (Middle)

P. O. Box 122

(Street or P.O. Box)

Mills

Natrona

Wyoming 82644

(City) (County) (State)

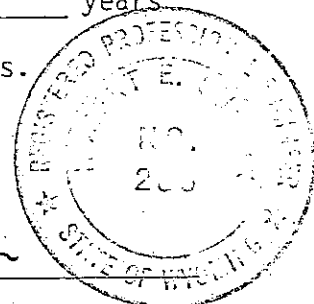
to construct, install, or modify a Commercial Subsurface Disposal
facility located in Section 32, T34N, R79W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 3 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Paul
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality



April 10, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

mailed
3/21/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-9

Pacific Steel
(Name of Facility)

This permit hereby authorizes the applicant:

Spiva Backhoe
(Last) (First) (Middle)

Dempsey Acres
(Street or P.O. Box)

Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Small Waste System
facility located in Section 34, T34N, R80W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William J. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 16, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

mailed
1/22/79

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 79-10

☐ Modified

Rolling Hills Estates

(Name of Facility)

This permit hereby authorizes the applicant:

Hopkins D. M.
(Last) (First) (Middle)

216 East 17th
(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Septic Tank & Drainfield
facility located in Section 33, T14, R67
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. O'Quinn
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 9, 1979

Date of Issuance



THE STATE

OF WYOMING

*Relocated
by 79-4668
467*

79-11

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

3144
TELEPHONE 307-332-8044X

M E M O R A N D U M

TO:

BILL GARLAND

FROM:

DOUG CRAIG, *DE.*
ENVIRONMENTAL ENGINEER

SUBJECT:

THAYNE WASTEWATER TREATMENT PLANT

DATE:

FEBRUARY 21, 1979.

The Thayne Wastewater Treatment Plant design has been thoroughly reviewed and is now in an approvable form. The only outstanding issue left to be resolved is the solids management plan. This plan is presently being reviewed by the Solids Waste Division.

Their findings will be conveyed to us at the completion of the review.

c.c. Don Armstrong,
Tudor Engineering,
450 S. Federal Blvd.,
Riverton, Wyo. 82501.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: THAYNE WASTEWATER TREATMENT PLANT

ARCHITECT OR ENGINEER: TUDOR ENGINEERING
450 SOUTH FEDERAL BOULEVARD
RIVERTON, WYO. 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-11

REVIEWING ENGINEER: DOUG CRAIG *D.C.*

DATE OF REVIEW: JANUARY 23, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The equilization basin doesn't appear to have a by-pass. How will maintenance on the aerators be performed?
2. Please clarify the purpose of the level control switches in the intake pump station.
3. Hose-gate connections on the sludge lines may eliminate some operational problems.
4. A 90% suspended solids removal in the primary and secondary clarifiers as indicated in the calculations seems quite high. However, due to the effluent requirements, this is probably unimportant.
5. Why such a limited drawdown in the aerobic digester?
6. Please supply the manufacturer's information on the digester diffusers.
7. The blowers specified for the digester are to have a capacity of 700 scfm @ 13 ft w.c.. The storage pond air requirements are for 95 cfm @ 17 ft. w.c.. Are the same blowers used for both installations? The head specifications for the three 400 scfm blowers is 13 ft.
8. Are all lines protected from freezing conditions? This is difficult to determine in some cases from the plans.
9. Are hose bibs provided at convenient locations for washdown of facilities?
10. Provide details of infiltration basin inlet structure and piping.
11. Has any work been conducted to ensure that the heat loss through the process is such that freezing will not inhibit infiltration?
12. What is your status on monitoring wells?

THAYNE WASTEWATER TREATMENT PLANT REVIEW
TO: TUDOR ENGINEERING - RIVERTON
FROM: DOUG CRAIG
JANUARY 23, 1979
NOT AUTHORIZED FOR CONSTRUCTION

- 2 -

13. We are awaiting your sludge management information
14. What lab facilities are to be provided?
15. An O & M manual is required.
16. This plant is designed for a BOD5 loading of 2025 lb/day. The permit is contingent upon this loading and any additional load will have to be eliminated.

mailed
3/19/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-12R

Laramie Energy Technology Center
(Name of Facility)

This permit hereby authorizes the applicant:

Laramie Energy Technology Center-Dept. of Energy
(Last) (First) (Middle)

P. O. Box 3395 - University Station
(Street or P.O. Box)

Laramie Wyoming 82071
(City) (County) (State)

to construct, install, or modify a Industrial Evaporative
facility located in Section 29, T22N, R81W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gable
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 7, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

mailed
1/17/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: 60' diameter evaporation tank for storage of wastewater at
LETC Hanna Research Site

ARCHITECT OR ENGINEER: John B. Lund, J. T. Banner & Assoc.
309 4th Street, P. O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-12

REVIEWING ENGINEER: Frank Harmon, P.E., Jake Strohman, P.E.

DATE OF REVIEW: January 11, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION PENDING RECEIPT OF ADDITIONAL
UNDERMENTIONED ITEMS IN "COMMENTS":

COMMENTS:

1. The 8 inch sand layer needs to be "keyed" into the normal ground in the area in order to prevent lateral slippage of the sand layer and tank.
2. The bolted steel tank side wall is required to meet the requirements of the AWWA Specifications D100-67.
3. Provide manufacturer's procedures or instructions on how the 36 mil "hypolon" liner is to be laid or applied to the bottom and side walls of the tank respectively. Special emphasis to be made on the point of interfacial meeting between the bottom edge of the steel tank and the sand bottom.
4. Additional information is required for review on the Vinyl Nitro ("permeation barrier") to be applied below 8" sand layer. Installation or application procedure should be included.
5. As an oil leak or oil spill contingency plan a berm shall be provided around the tank beyond the sand layer. This berm should encompass a pond or "moat" which should be capable of handling at least $\frac{1}{2}$ the stored volume of wastewater is 50,000 gallons.

In the event of a leak the remaining wastewater may be collected and stored in 50 gallon barrels. This will require an adequately sized pump and handle the remaining 50,000 gallons of wastewater in a reasonable amount of time. Provide the specifications for such a pump and willingness to provide the 10,000 barrels needed under such an oil leak or oil spill contingency plan. When an oil spill contingency plan is prepared, please send a copy.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed to
L. 1/29/79

☐ New

☒ Renewal

☐ Modified

79-13
CROSS REF. 76-269R
Permit No. _____

IMPERIAL HEIGHTS ADDITION

(Name of Facility)

This permit hereby authorizes the applicant:

UPLAND INDUSTRIES

(Last)

(First)

(Middle)

110 NORTH FOURTEENTH ST.

SUITE 1000

(Street or P.O. Box)

OMAHA

NEBRASKA

68102

(City)

(State)

(Zip Code)

to construct, install, or modify a WATER AND SEWER SYSTEM

facility located in SEC35 T18N R107W
(Legal Description)

in the County of SWEETWATER, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Chalmers
Administrator
Water Quality Division

Robert E. Eardley
Director
Department of Environmental
Quality

JANUARY 22, 1979
Date of Issuance

ATTN: R. MICHAEL BRENNEMAN, P.E.
c.c. PACIFIC POWER & LIGHT COMPANY
920 S.W. SIXTH AVE.
PORTLAND, OREGON, 97204
ATTN: CHESTER E. ELSTON, P.E.,
SR. WATER SYSTEMS ENGINEER

mailed
1/22/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-14

Grayson Building
(Name of Facility)

This permit hereby authorizes the applicant:

Hones	L.	A.
(Last)	(First)	(Middle)
<u>Box 1519</u>		
(Street or P.O. Box)		
Casper	Natrona	Wyoming 82601
(City)	(County)	(State)

to construct, install, or modify a Septic System
facility located in Section 21, T34N, R79W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 9, 1979

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Grayson Building Septic System, Casper, WY 82601, Natrona Co.

ARCHITECT OR ENGINEER: L. A. Hones, Box 1519, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-14

REVIEWING ENGINEER: Robert H. Pinther, P.E., M.S.; Jake Strohman, P.E.

DATE OF REVIEW: 1/9/79

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

The slope of the sewer from the building to the septic tank should be 2%.

Mailed
1/22/79

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 79-15

☐ Modified

Go-Wire Services
(Name of Facility)

This permit hereby authorizes the applicant:

Burd	W.	E.
(Last)	(First)	(Middle)
1410 Mariposa	(Street or P.O. Box)	
Casper	Natrona	Wyoming 82601
(City)	(County)	(State)

to construct, install, or modify a Septic System
facility located in Section 6, T33N, R79W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. J. J.
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 9, 1979

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank
Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Septic System for Go-Wire Services, Casper, WY 82601, Natrona Co.

ARCHITECT OR ENGINEER: W. E. Burd, 1410 Mariposa, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-15

REVIEWING ENGINEER: Robert H. Pinther, P.E., M.S.; Jake Strohman, P.E.

DATE OF REVIEW: 1/9/79

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

1. To facilitate trapping and retention of oil and grease the septic tank serving the "grey water" system the outlet baffle of the septic tank should extend at least 3 feet below the water level in the tank.
2. The slope of the sewers from the building to the septic tank should be 2%.

mailed
1/22/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-16 1

Finn McCarthy System
(Name of Facility)

This permit hereby authorizes the applicant:

<u>McCarthy</u> (Last)	<u>Finn</u> (First)	<u></u> (Middle)
<u>1501 Nottingham Drive</u> (Street or P.O. Box)		
<u>Casper</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82601</u> (State)

to construct, install, or modify a Subsurface Disposal
facility located in Section 27, T34N, R80W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 9, 1979

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

3-22-84
Converse

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 22, 1984

Mr. Bob Norton
P.O. Box 1599
Jackson, WY 83001

Dear Mr. Norton

On March 13, 1984, a status letter was sent to you concerning a permit to construct, reference number 19-17, facility name Country Estates. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules & Regulations, must be followed.

Sincerely,

A handwritten signature in cursive script, appearing to read "LeRoy C. Feusner".

LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

LCF/nc

cc: Town of Glenrock
Glenrock, WY 82637

*Department of Environmental Quality**Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781.

March 13, 1984

Town of Glenrock
Glenrock, WY 82637

Gentlemen:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name:	Country Estates
DEQ/WQD Reference Number:	79-17
Engineering Consultant:	C. K. Wolz, Wolz & Associates
DEQ/WQD Reviewing Engineer:	Robert Pinther
Date of DEQ/WQD Review:	February 28, 1979

Please indicate below the status of your application and return this form to our office:

- ☐ The application will not be resubmitted as the proposed project has been cancelled.
- ☐ The application will be resubmitted within 30 days.
- ☐ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- ☐ Other remarks _____

*Telephone conversation, 21 Mar 84, Project Cancelled as 79-17.
Returning documents to town engineer, Bob Norton, Jackson, WY.*

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,

A handwritten signature in cursive script, appearing to read "LeRoy C. Feusner".

LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

cc: C. K. Wolz
Wolz & Associates
933 West 14th Street
Casper, WY 82601



Department of Environmental Quality

Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

Town of Glenrock
Glenrock, WY 82637

Gentlemen:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name:	Country Estates
DEQ/WQD Reference Number:	79-17
Engineering Consultant:	C. K. Wolz, Wolz & Associates
DEQ/WQD Reviewing Engineer:	Robert Pinther
Date of DEQ/WQD Review:	February 28, 1979

Please indicate below the status of your application and return this form to our office:

- ☐ The application will not be resubmitted as the proposed project has been cancelled.
- ☐ The application will be resubmitted within 30 days.
- ☐ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- ☐ Other remarks _____

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

cc: C. K. Wolz
Wolz & Associates
933 West 14th Street
Casper, WY 82601

mailed
3/14/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Country Estates Water & Sewer Plans, Glenrock, WY, Converse County

ARCHITECT OR ENGINEER: Wolz & Assoc., P. O. Box 322, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-17

REVIEWING ENGINEER: Robert H. Pinther, M.S., P.E., Jake Strohman, P.E.

DATE OF REVIEW: 2/28/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Water Main Extensions

1. Provide a minimum cover of 5 feet over water mains to prevent freezing.
2. Pressure and leakage test procedures shall incorporate the provisions Section 4 - Hydrostatic Testing of AWWA Standard C600-77. The pressure test shall be of at least 2 hours duration.
3. All visible leaks shall be repaired regardless of the amount of leakage.
4. The allowable leakabe for 6 inch ductile iron pipe shall not exceed 0.45 gallons per hour per 1000 feet of pipeline at the 100 psi specified. (See Table 7 of AWWA Standard C600-77).
5. Provide a legend which identifies the symbol for valves, fire hydrants, etc.
6. Valves in the service area, present or future, should be located at not more than one block or 800 foot intervals.
7. Fire hydrants should be spaced at 350 to 600 feet intervals depending on the build-up of the area being served.
8. The pressure reducing valve vault shall be drained to the surface of the ground where it is not subject to flooding by surface water or to an absorption pit underground.

Sewer Main Extensions

Specify that the maximum vertical deflection of any sewer pipe due to ovalation shall not exceed 5% of the internal pipe diameter.

Lift Station

1. The pumps should be preceded by readily accessible bar racks or baskets with clear openings not exceeding 2½ inches unless special devices are installed to protect the pumps from clogging or damage.
2. The submersible pumps shall be capable of unsubmerged operation without damage or reduction of service capability, or positive provision shall be made to assure submergence, e.g., backup controls.
3. The wet well floor shall have a minimum slope of 1 to 1 to a hopper bottom.
4. The pumps shall be resistant to corrosion by sewage and sewer gases.
5. All control valves on the discharge line from each pump shall be placed in a convenient location outside the wet well and be suitably protected from weather & vandalism.
6. In lieu of adequate ventilation of the wet well by the introduction of fresh air by mechanical means provision shall be made for servicing wet well screens or bar racks without entering the wet well.
7. An audio-visual alarm device shall be installed for external observation. It shall be activated in cases of power failure, pump failure or any other cause of pump station malfunction.
8. Each pump shall have sufficient capacity to maintain a cleansing velocity of at least 2 feet per second in the 4 inch force main.

C.C. TOWN OF MOUNTAIN VIEW
BOX 249
MOUNTAIN VIEW, WYO. 82939

ROCKY MOUNTAIN ENGINEERING & SURVEYING INC.
P.O. BOX 805
EVANSTON, WYO. 82930 ATTN: DALE E. PETERSON P.E.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-18RR

*mailed to
L. 3/30/79*

MOUNTAIN VIEW SUBDIVISION SEWER & WATER

(Name of Facility)

This permit hereby authorizes the applicant:

MOUNTAIN VIEW SUBDIVISION

(Last)

(First)

(Middle)

P.O. BOX 342

(Street or P.O. Box)

COALVILLE, UTAH, 84107

(City)

(County)

(State)


to construct, install, or modify a WATER DISTRIBUTION AND WASTEWATER

facility located in SEC 13 & 24, T15N R115W

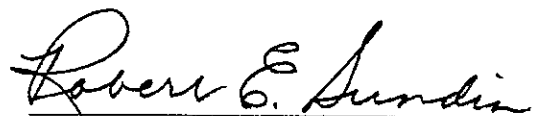
(Legal Description)

in the County of UINTA, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

MARCH 22, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."


REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: MOUNTAIN VIEW SUBDIVISION WATER & SEWER
SEC. 13 & 14, T. 15 N., R115W
UINTA COUNTY, MOUNTAIN VIEW, WYO.
ENGINEER: ROCKY MOUNTAIN ENGINEERING & SURVEYING
P.O. BOX 805
EVANSTON, WYO. 82930 - ATTN: DALE E. PETERSON, P.E.
OWNER: MOUNTAIN VIEW SUBDIVISION
P.O. BOX 342
COALVILLE, UTAH, 84107

WATER QUALITY DIVISION REFERENCE NUMBER: 79-18R

REVIEWING ENGINEER: ^{Due} DAVID W. HILL

DATE OF REVIEW: MARCH 9, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

WATER AND SEWER LINE

1. Spacing skids ten feet apart in the casings is too far apart. It could result in bowing pipe and joints pulling apart. The skids should be spaced closer together.

LIFT STATIONS

2. As per our phone conversation of March 8, we need more information on procedures during power outages.
3. More information is needed to insure that the lift stations will not be flooded out during flooding of the Smith Fork.
4. A gate valve should be placed on each individual discharge line from the wet well.
5. The submersible pump removal system should extend to the surface. Under the present design using a coned manhole, it would be extremely difficult to remove the pumps. It would also be hazardous for the maintenance people.

2089
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: MOUNTAIN VIEW SUBDIVISION

ARCHITECT OR ENGINEER: ROCKY MOUNTAIN ENGINEERING & SURVEYING
P.O. BOX 805
EVANSTON, WYO. 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 79-18

REVIEWING ENGINEER: ^{DW} DAVID W. HILL

DATE OF REVIEW: JANUARY 29, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: GENERAL

1. Please have owner or owners designated representative fill out and submit "Application for Permit to Construct".

SEWER SYSTEM

COLLECTION LINES

2. A deflection testing specification is needed for PVC pipe.
3. Infiltration exfiltration tests shall be performed.
4. Because of possible high groundwater, branch wyes should be used for all service connections rather than saddles.
5. Unless it is absolutely impossible, all water and sewer mains shall be kept at least ten feet from each other except at crossings. Your specifications don't reflect this.
6. More details are needed on the river crossing (i.e. - depth of bury, protection over casing, spacing of skids, etc.).
7. Discuss the possibilities of the sewer line floating in the casing. What method or steps will be taken to prevent this?

LIFT STATIONS

1. The Engineering Report looks good, however, nowhere could I determine expected average flow or peak flow to average flow factors used in design.
2. Address emergency power or a dual source of power. Indicate power outages in area over last several years, storage capacity in collection lines, etc.

REVIEW

MOUNTAIN VIEW SUBDIVISION 79-18

FROM: DAVID W. HILL

JANUARY 29, 1979

- 2 -

3. One-to-one fillets should be used in wetwells to stop solids deposition.
4. Is a drain or sump needed in the valve pits?
5. Are the lift stations protected from surface runoff?

WATER SYSTEM

1. Indicate pressure rating of PVC pipe.
2. Indicate all valve locations on plans.
3. More details are needed on the river crossing (i.e. depth of bury, protection over casing, spacing of skids, etc.)
4. For the river crossing, a manhole is needed for the upstream valve. Permanent taps are needed on each side of this upstream valve to allow insertion of a small meter for testing to determine leakage or for sampling.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801

PROJECT:

Collins Heights Industrial Park Subdivision

ARCHITECT OR ENGINEER:

Wayne Haug
Scott Engineering Co.
P.O. Box 2097
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER:

79-19

REVIEWING ENGINEER:

Dan H. Kim, Tom Mueller

DATE OF REVIEW:

February 15, 1979

ACTION:

Not Authorized for Construction

COMMENTS:

1. The adequacy of the existing water system for the new subdivision and the design criteria of the system should be addressed, particularly including:
 - a. Are the 18 lots total development in the Industrial Park Subdivision? Will there be additional development in the future?
 - b. Is the subdivision composed of residential houses? If any industries are to be included, provide detailed information concerning the type of business, water demand, etc.
 - c. Design criteria of the new 83,500 gallon tank.
2. It is the Department's policy that all water supplies are required to have a provision for disinfection. Please provide details.
3. Please discuss how the water system is controlled. Are the booster pump and the new water storage interconnected? If not, why not?

Now that the existing control system in the underground storage is to be moved to the new tank, at what levels will the well pump start and stop? How will the underground storage be filled?

Collins Heights Industrial Park Subdivision
February 15, 1979
Page two

4. Engineering specifications should include the following:
 - a. Specifications for pipe fitting
 - b. Bearing area of thrust blocking
 - c. Degree of compaction of backfill in terms of percent density as specified in ASTM D698
5. The new storage tank must have a drain pipe. The drain line termination must meet the same criteria as the overflow pipe.
6. A shutoff valve is needed on the 4" line from well #1 to the new tank to permit isolation of the tank for repairs.
7. Tank foundation specifications called for an oiled fine sand layer instead of concrete slab as shown in the plans. Please clarify.
8. All water storage coatings used should meet AWWA D-101 standards and must be EPA, FDA or NSF approved for use with portable water. Does the thermally cured epoxy used meet this criteria?

PERMIT TO CONSTRUCT

mailed to
\$3/7/79

☒ New

Permit No. 79-20

☐ Renewal

☐ Modified

INTERSTATE INDUSTRIAL PARK

(Name of Facility)

This permit hereby authorizes the applicant:

Western Interstate Company

(Last) (First) (Middle)
c/o Scott Engineering Company

704 Douglas Highway

(Street or P.O. Box)

Gillette

Campbell

Wyoming 82716

(City)

(County)

(State)

to construct, install, or modify a public water supply

facility located in Sections 24 and 25, T.50N., R.72W.
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of one (1) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gable
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

March 5, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

77-1405
5-11-79

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-21R

☐ Renewal

☐ Modified

ORR SUBDIVISION WATER MAIN INSTALLATION FOR FOUR TAPS

(Name of Facility)

This permit hereby authorizes the applicant:

Orr

Ron

(Last)

(First)

(Middle)

c/o Ralph Goodson

P.O. Box 125

(Street or P.O. Box)

Sundance

Crook

Wyoming 82729

(City)

(County)

(State)

to construct, install, or modify a 6" water distribution line for four taps

facility located in Section 6, T.51N., R.62W.

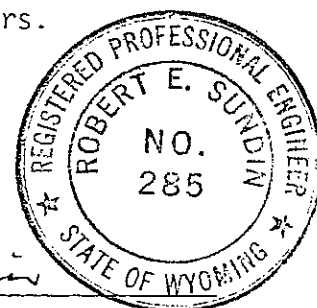
(Legal Description)

in the County of Crook, in the State of
Wyoming. This permit shall be effective for a period of two (2) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gable
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 11, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

Copy

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Orr Subdivision Water Main Installation, Crook County

ARCHITECT OR ENGINEER: Ralph Goodson
Bearlodge Engineering
P.O. Box 125
Sundance, WY 82729

WATER QUALITY DIVISION REFERENCE NUMBER: 79-21

REVIEWING ENGINEER: Dan H. Kim, Tom Mueller

DATE OF REVIEW: February 8, 1979

ACTION: Not Authorized for Construction

COMMENTS:

1. A letter from the City of Sundance should be provided, stating that the City can provide adequate water supply to the subdivision.
2. Are the eight lots total development in the subdivision? Will there be additional development in the future?
3. What are the proposed minimum and maximum water pressure in the subdivision?
4. Dead ends should be minimized by looping of all mains whenever practical. Please discuss.
5. Is the water to be supplied to the subdivision disinfected at the source?
6. Installation specifications for fire hydrants, valves, thrust blocking, etc., should be provided. Typical detail drawings are also needed for water service line, hydrants, trench backfilling, thrust blocks, etc.
7. Backfilling specifications should include materials of bedding and backfilling, degree of compaction in terms of maximum density, tamping methods, etc.
8. The proper standards for gate valves are AWWA C500 and for fire hydrants C502.

cc: Fred Sielbach, Jr.
1780 Westland Road
Cheyenne, WY 82001

Book
M-8-1-77

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-22RRRRR

☐ Renewal

☒ Modified

Mountain View Estates Mobile Home Park

(Name of Facility)

This permit hereby authorizes the applicant:

Henning,

Ernest

(Last)

(First)

(Middle)

135 South Greeley Highway

(Street or P.O. Box)

Cheyenne,

Laramie,

WY 82001

(City)

(County)

(State)

to construct, install, or modify a water distribution and subsurface disposal

facility located in Sec. 22, T14N, R66W

(Legal Description)

in the County of Laramie, in the State of

Wyoming. This permit shall be effective for a period of two (2) years

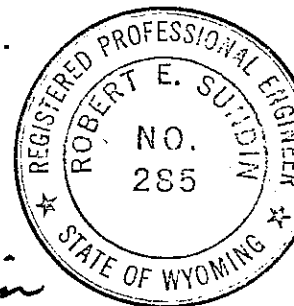
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Surtin
Director
Wyoming Dept. of Environmental Quality



July 31, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

THE STATE



OF WYOMING

79-22
RRRRR

Chon

ED HERSCHLER
GOV. NOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777 7781

December 23, 1980

Ernest Henning
135 South Greeley Highway
Cheyenne, WY 82001

Subject: Construction Permit #79-22RRRRR
Mountain View Estates Mobile Home Park

Dear Mr. Henning:

On July 31, 1979, construction permit number 79-22RRRRR was issued to you for the purpose of expanding the potable water supply and sewage disposal facility at the Mountain View Mobile Home Park. Your application for the permit indicated that the facility was to be located in Section 22, T14N, R66W and the permit was issued accordingly. We now have information that would indicate that this location information is incorrect. We have reason to believe that the facilities would actually be located in Section 15, T14N, R66W. If this is true, the permit is invalid.

On December 11, 1980, Tom Norman and I visited the above facility. At that time we did not observe any reason why the construction should not be permitted. Therefore, if you will complete the enclosed application form with the corrected information and return it to us, we will issue a modified permit for the project.

If you have any questions about this, feel free to contact us about them.

Very truly yours,

Theodore D. Coyer

Theodore D. Coyer, P.E.
Environmental Engineer

TC/mlb
Enclosure

cc: Tom Norman

11-7-13-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~STATE OF WYOMING~~ Hathaway Bldg.
Cheyenne, Wyoming 82002

PROJECT: Mobile Home Park, Tract I, Crestmoor Addition, Laramie Co.

ARCHITECT OR ENGINEER: CSSA, 1780 Westland Road, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-22RR

REVIEWING ENGINEER: *Robert H. Pinther* Robert H. Pinther, P.E., M.S.

DATE OF REVIEW: July 11, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The items under comments #1 and #2 set forth below are numbered as they were on review #79-22R of April 20, 1979.

1. Proposed correction of "As Built" water system

B. (2) The steel reservoir, when completed, shall have a 20 mil coal-tar epoxy coating and cathodic-protection for a 20 year life.

2. Proposed construction - water system

B. (1) Submit plans and specifications covering the proposed storage tank. The steel reservoir shall be protected against corrosion as set forth in B (2) above for the existing reservoir in addition to embedment in washed sand.

(2) (a) Specify a 5 feet minimum horizontal separation between water and sewer service risers.

(b) Change AWWA number in disinfection note on sheet 2 of the plans from CG01 to C601.

(c) Substitute section "II Crossings" of the enclosed "Requirements for Minimum Horizontal and Vertical Separation Between Water and Sewer Mains" in place of paragraph 9 Water Line Crossings on page SS-6 of the specifications.

- (d) Reduce allowable leakage in water distribution to $\frac{1}{2}$ by increasing the denominator of the formula in paragraph 9 of the Water Main Construction Specifications from 3700 to 7400. A copy of Table 7 from AWWA Standards C600-77 is enclosed for your convenience in determining allowable leakage using the revised formula.
 - (e) Well No. 3 shall be located so that no present or future sewer lines on this or adjacent property will be located within 50 feet of the well.
- D. The total developed ground water source capacity shall equal or exceed the design maximum day demand and equal or exceed the design average day demand with the largest producing well out of service.
- E. Provide a water sampling tap for each well.
- 2a. Proposed construction - additional comments
- A. Provide chemical analysis of water from the new well or wells.
 - B. Provide a brochure or detail sketch of the "well cap/vent" for the new well(s).
 - C. Provide a pump control device which will shut off the booster pumps before vacuum conditions occur in the pump suction header.
3. Include the following in the septic tank drainfield design:
- A. Septic Tank
 - (1) Both access manholes shall be at least 20 inches least dimension.
 - B. Drainfield
 - (1) The gravel shall be covered with untreated building paper or equivalent before backfilling.
 - (2) Gravel for the disposal field shall range in size from $\frac{1}{2}$ inch to $2\frac{1}{2}$ inches.
4. Provide the following in connection with the specifications:
- A. A minimum cover over water main for freeze protection is required.
 - B. From Section 7 of Water Main Construction Specifications, the statement "Where water lines cross under or less specified in Section 9 of this sanitary sewer construction specifications" does not make sense.

TABLE 7
Allowable Leakage per 1000 ft of Pipeline*—gph

Avg. Test Pressure psi	Nominal Pipe Diameter—in.																
	2	3	4	6	8	10	12	14	16	18	20	24	30	36	42	48	54
450	0.32	0.48	0.64	0.95	1.27	1.59	1.91	2.23	2.55	2.87	3.18	3.82	4.78	5.73	6.69	7.64	8.60
400	0.30	0.45	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70	3.00	3.60	4.50	5.41	6.31	7.21	8.11
350	0.28	0.42	0.56	0.84	1.12	1.40	1.69	1.97	2.25	2.53	2.81	3.37	4.21	5.06	5.90	6.74	7.58
300	0.26	0.39	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.34	2.60	3.12	3.90	4.68	5.46	6.24	7.02
275	0.25	0.37	0.50	0.75	1.00	1.24	1.49	1.74	1.99	2.24	2.49	2.99	3.73	4.48	5.23	5.98	6.72
250	0.24	0.36	0.47	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85	3.56	4.27	4.99	5.70	6.41
225	0.23	0.34	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70	3.38	4.05	4.73	5.41	6.03
200	0.21	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19	3.82	4.46	5.09	5.73
175	0.20	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98	3.58	4.17	4.77	5.36
150	0.19	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76	3.31	3.86	4.41	4.97
125	0.17	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52	3.02	3.53	4.03	4.53
100	0.15	0.23	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80	2.25	2.70	3.15	3.60	4.05

* For pipe with 18-ft nominal lengths. To obtain the recommended allowable leakage for pipe with 20-ft nominal lengths, multiply the leakage calculated from the table by 0.9. If the pipeline under test contains sections of various diameters, the allowable leakage will be the sum of the computed leakage for each size.

Back
Main
3-4-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Mobile Home Park, Tract I, Crestmoor Addition, Laramie County, Wyoming

ARCHITECT OR ENGINEER: CSSA, 1780 Westland Road, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-22R

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E., M.S.

DATE OF REVIEW: April 20, 1979

ACTION: Reviewed (1) "As Built" Plans
(2) Proposed construction plans - NOT AUTHORIZED FOR CONSTRUCTION
pending receipt of plans in compliance with the comments listed below under "Proposed
COMMENTS: Construction" and "General"

1. "As Built" Water System

- A. The booster pump and pressure tank capacities shall be increased as set forth below or an equivalent hydraulic design that is acceptable to this Division:
- (1) Provide at least 2-60 g.p.m. or 3-30 g.p.m. booster pumps. Each pump shall be capable of delivering at the design rate when pumping against the maximum expected working pressure.
 - (2) Provide enough additional gross pressure tank capacity to supplement the existing 120 gallon tank and attain a total gross pressure tank volume of at least 10 times the capacity of the largest pump in g.p.m.
- B. As agreed during a conference on April 19, 1979 with Mr. Sielback and Mr. Abplanalp of CSSA and the owner, Ernest S. Henning, the following additional corrective action shall be taken:
- (1) A gravity drain line at least 2 inches in diameter which discharges to grade shall be provided to drain the water system pump pit.
 - (2) Such additional corrosion protection for the reservoir shall be provided as may be required by this Division following our review of the specifications covering the protection provided prior to the installation of this reservoir. A copy of these specifications will be submitted to this Division by the Engineer.
 - (3) The open end of the reservoir overflow pipe shall face downward.

- (4) The reservoir manhole cover shall extend down around the raised frame at least 2 inches and shall be watertight as well as locked in place.

2. Proposed Construction - Water System

- A. Show sewer service connections for unit spaces 7, 8 and 9 and provide the required 50 feet separation (20 feet if the sewer lines are constructed of water main quality pipe and pressure tested in place to 50 psi without leakage) between the sewer and any well or reservoir.
- B. As per the aforementioned conference with the Engineers and the owner, the following revisions and/or additions shall be made to the plans or specifications:
 - (1) A detailed description of the proposed 8000 gallon reservoir, if different than existing reservoir, after revision to comply with the standards of this Division. If a metal tank is to be employed, embedment in washed sand as well as protective coating shall be provided to prevent corrosion.
 - (2) Revise plans to comply with comments No. 2, 4, 6, 11, 12, 13 and 15 of our plan review #79-22 of January 22, 1979.
- C. The water service line to each trailer shall be at least 3/4 inches in diameter.
- D. At least one additional well should be obtained as soon as possible for standby purposes.
- E. Provide a water sampling tap for each well.
- F. Obtain at least 2 bacteriological samples from the new areas of the water system which show the water to be safe prior to placing new facilities into use.

3. Proposed Construction - Sewer System

- A. Relocated and/or enlarged the drainfield located nearest to the wells and reservoirs to obtain:
 - (1) The required 100 foot separation from any well or reservoir.
 - (2) Adequate area to accommodate the proposed septic tank effluent loading.
- B. Specify that cast iron or schedule 40 PVC pipe shall extend at least 5 feet from the inlet and outlet of each septic tank.

4. General

- A. The plans shall bear the seal or signature of the designing engineer who is a registered engineer in the State of Wyoming.
- B. At least 2 copies of the final plans shall be submitted for review.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

mailed
2/22/79

PROJECT: Mobile Home Park, Tract I, Crestmoor Addition, Laramie County, WY

ARCHITECT OR ENGINEER: Jon Anderson, CSSA, 1780 Westland Road, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-22

REVIEWING ENGINEER: Robert H. Pinther, P.E., M.S.; Jake Strohman, P.E.

DATE OF REVIEW: 1/29/79 -

ACTION: Reviewed (1) "AS BUILT" plans covering items which have been verbally identified by the Engineer as having been constructed after 4/1/78.

COMMENTS: (2) Proposed Construction Plans - NOT AUTHORIZED FOR CONSTRUCTION

1. "AS BUILT" Water System

1. Is the plastic water pipe serving the reservoir and Well No. 3 of the non-toxic type bearing the NSF seal of approval of the National Sanitation Foundation?
2. Is the top of the existing reservoir located at least 2 feet above normal ground level?
3. Is the bottom of the existing reservoir located above the groundwater table?
4. Is the overflow from the existing reservoir properly screened (with 24 mesh non-corrodible installed within the pipe at a location least susceptible to damage) and does it open downward?
5. Is the access manhole of the existing reservoir provided with a frame extending 4" to 6" above the reservoir roof with the cover extending down around the frame at least 2 inches?
6. Does the existing 87 gallon pressure tank meet the ASME code requirements as well as those set forth in Section 2.8, Appendix A, Chapter III of the Wyoming Water Quality Rules & Regulations 1976?
7. What is the type, thickness & weight of the material used to construct the reservoir?

2). Proposed Construction - Water System .

1. Specify that all plastic pipe shall be of the non-toxic type bearing the NSF seal of approval of the National Sanitation Foundation.
2. Show the highest seasonal groundwater level in the drainfield area.
3. Revise the plans as necessary to provide a separation of at least 50 feet between either well or reservoir and any source of contamination such as sewer lines, septic tanks and manholes with the exception that sewer lines constructed of water main quality pipe and pressure tested in place to 50 psi without leakage may be located at distances greater than 20 feet and less than 50 feet.
4. Provide a minimum separation of 100 feet between either well or reservoir and any drainfield.
5. Submit detailed plans and specifications covering the access manhole, overflow, elevation with respect to ground level, material's of construction, re-inforcing, water tight construction, wall and roof thickness, etc., of the proposed 8,000 gallon ground level storage tank.
6. The dead ends on the distribution system shall each have a blowoff or flushing hydrant for flushing purposes.
7. Provide a second distribution system pump which has a capacity of at least 15 (15 + 15 = 30 gpm total) gallons per minute at the expected total operating discharge head, i.e. adequate to supply a maximum hourly flow of twice the average daily (16 hrs/day) flow.
8. To avoid the hazard of flooding as well as the hazard of shallow suction lines & their location too close to sewer lines and drainfields, the new pump shall be located directly over one of the ground level reservoirs with an insulated pumphouse or a submersible with a below grade discharge unit provided to prevent freezing.
9. At such time as major changes are made in the system the existing distribution system pump should be located above grade as described in comment #8 above.
10. Submit a sketch of a typical water service riser with control works, method of preventing freezing, concrete collar, etc.
11. Provide 5 feet minimum separation between water and sewer service risers.
12. Provide for disinfection of the new storage reservoir and piping prior to going into service in accordance with the procedure as set forth in the current addition of AWWA Standards C601 and D102.

13. Provide a minimum vertical separation of 18 inches between water and sewer lines at crossings. The sewer lines shall be below the water lines.
14. Specify that all electrical work and components shall be in compliance with latest edition of the National Electrical Code.
15. All water lines shall be pressure tested prior to burial at a minimum of $1\frac{1}{2}$ times the normal operating pressure.
16. Well No. 3 is located less than 50 feet from the property line along Glenco Drive. Any future sewer line in this right of way would be too close to this well.

3). Proposed Construction - Sewer System

1. Submit a detail of a typical sewer service riser with a non-breakable water tight plug. (See enclosed suggested design).
2. Specify that the maximum infiltration or exfiltration shall be 200 gallons per inch of pipe diameter per mile per day.
3. Specify that the maximum vertical deflection of any sewer pipe shall not exceed 5% of the internal pipe diameter.
4. The plastic inlet and outlet pipes at the septic tanks shall be schedule 40.

THIS IS NOT A FINAL REVIEW

Enclosure (1)

mailed
2/6/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Mobile Home Park, Tract I, Crestmoor Addition, Laramie County, WY

ARCHITECT OR ENGINEER: Jon Anderson, CSSA, 1780 Westland Road, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-22

REVIEWING ENGINEER: *Robert H. Pinther* Robert H. Pinther, P.E., M.S.; Jake Strohman, P.E.

DATE OF REVIEW: 1/29/79 -

ACTION: Reviewed (1) "AS BUILT" plans covering items which have been verbally identified by the Engineer as having been constructed after 4/1/78.

COMMENTS: (2) Proposed Construction Plans

1. "AS BUILT" Water System

1. Is the plastic water pipe serving the reservoir and Well No. 3 of the non-toxic type bearing the NSF seal of approval of the National Sanitation Foundation?
2. Is the top of the existing reservoir located at least 2 feet above normal ground level?
3. Is the bottom of the existing reservoir located above the groundwater table?
4. Is the overflow from the existing reservoir properly screened (with 24 mesh non-corrodible installed within the pipe at a location least susceptible to damage) and does it open downward?
5. Is the access manhole of the existing reservoir provided with a frame extending 4" to 6" above the reservoir roof with the cover extending down around the frame at least 2 inches?
6. Does the existing 87 gallon pressure tank meet the ASME code requirements as well as those set forth in Section 2.8, Appendix A, Chapter III of the Wyoming Water Quality Rules & Regulations 1976?
7. What is the type, thickness & weight of the material used to construct the reservoir?

2). Proposed Construction - Water System

1. Specify that all plastic pipe shall be of the non-toxic type bearing the NSF seal of approval of the National Sanitation Foundation.
2. Show the highest seasonal groundwater level in the drainfield area.
3. Revise the plans as necessary to provide a separation of at least 50 feet between either well or reservoir and any source of contamination such as sewer lines, septic tanks and manholes with the exception that sewer lines constructed of water main quality pipe and pressure tested in place to 50 psi without leakage may be located at distances greater than 20 feet and less than 50 feet.
4. Provide a minimum separation of 100 feet between either well or reservoir and any drainfield.
5. Submit detailed plans and specifications covering the access manhole, overflow, elevation with respect to ground level, material's of construction, re-inforcing, water tight construction, wall and roof thickness, etc., of the proposed 8,000 gallon ground level storage tank.
6. The dead ends on the distribution system shall each have a blowoff or flushing hydrant for flushing purposes.
7. Provide a second distribution system pump which has a capacity of at least 15 (15 + 15 = 30 gpm total) gallons per minute at the expected total operating discharge head, i.e. adequate to supply a maximum hourly flow of twice the average daily (16 hrs/day) flow.
8. To avoid the hazard of flooding as well as the hazard of shallow suction lines & their location too close to sewer lines and drainfields, the new pump shall be located directly over one of the ground level reservoirs with an insulated pumphouse or a submersible with a below grade discharge unit provided to prevent freezing.
9. At such time as major changes are made in the system the existing distribution system pump should be located above grade as described in comment #8 above.
10. Submit a sketch of a typical water service riser with control works, method of preventing freezing, concrete collar, etc.
11. Provide 5 feet minimum separation between water and sewer service risers.
12. Provide for disinfection of the new storage reservoir and piping prior to going into service in accordance with the procedure as set forth in the current addition of AWWA Standards C601 and D102.

13. Provide a minimum vertical separation of 18 inches between water and sewer lines at crossings. The sewer lines shall be below the water lines.
14. Specify that all electrical work and components shall be in compliance with latest edition of the National Electrical Code.
15. All water lines shall be pressure tested prior to burial at a minimum of $1\frac{1}{2}$ times the normal operating pressure.
16. Well No. 3 is located less than 50 feet from the property line along Glenco Drive. Any future sewer line in this right of way would be too close to this well.

3). Proposed Construction - Sewer System

1. Submit a detail of a typical sewer service riser with a non-breakable water tight plug. (See enclosed suggested design).
2. Specify that the maximum infiltration or exfiltration shall be 200 gallons per inch of pipe diameter per mile per day.
3. Specify that the maximum vertical deflection of any sewer pipe shall not exceed 5% of the internal pipe diameter.
4. The plastic inlet and outlet pipes at the septic tanks shall be schedule 40.

Enclosure (1)

PERMIT TO CONSTRUCT

Back
7-10-79

☐ New
☒ Renewal
☐ Modified

Permit No. 79-23R
Ref. 76-369RRRR

SUNBURST WATER AND SEWER DISTRICT - NEW WELL CONNECTION
(Name of Facility)

This permit hereby authorizes the applicant:

Attention: Mike McDill

Sunburst Water and Sewer District

(Last) (First) (Middle)

P.O. Box 159

(Street or P.O. Box)

Gillette

Campbell

Wyoming 82716

(City) (County) (State)

to construct, install, or modify a new well and chlorination

facility located in Sections 2 and 3, T.49N., R.72W.
(Legal Description)

in the County of Campbell, in the State of

Wyoming. This permit shall be effective for a period of two (2) years

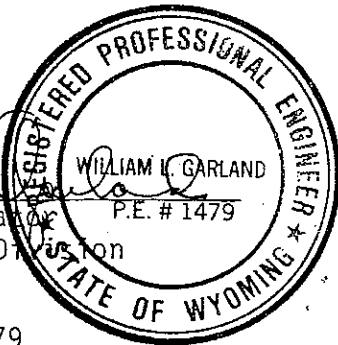
from the date of issuance of this permit not to exceed five (5) years.

cc: Charles Hruby, HWS Inc.

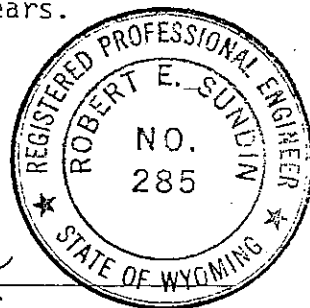
P.O. Box 2020, Gillette, WY 82716

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division
P.E. # 1479



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



July 9, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

Noted

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801

PROJECT: Sunburst Water and Sewer District - New Well Connection

ARCHITECT OR ENGINEER: Attention: Mr. Charles S. Hruby, Jr.
Hoskins-Western-Sonderegger, Inc.
P.O. Box 2020
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-23 Ref. 76-369RRRR

REVIEWING ENGINEER: ^{DK} Dan H. Kim

DATE OF REVIEW: January 23, 1979

ACTION: Not Authorized for Construction

COMMENTS:

1. Please submit complete details of the new well (i.e., depth, casing, grouting, capping, design yield, chemical analysis, disinfection procedures, pump details, well log, pitless adaptor details, etc.).

Well construction shall be performed in accordance with Ten States Standards for Water Works, Section 3.2.

*Bacteriological and chemical analysis may be submitted upon completion of drilling.

2. Specifications of water main installation are needed.
3. It is the Department's policy that all water supplies are required to have an ability for disinfection. Therefore, the proposed well needs a disinfection system. Please provide details.

Book
Mailed
4-13-79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-24R

Vista West Water Company
(Name of Facility)

This permit hereby authorizes the applicant:

Vista West Water Company
(Last) (First) (Middle)
Box 567
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

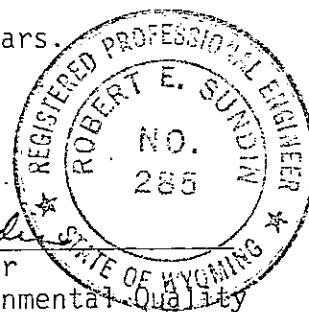
to construct, install, or modify a Meter House & Transmission Line
facility located in Section 28 & 34, T34N, R80W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



April 4, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

mailed
3/28/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Additional Water Supply (BPU Meter House & Transmission Main), Vista West Water Company, Natrona County

ARCHITECT OR ENGINEER: R. L. Streeter II, Sigma Engineering, P. O. Box 4060, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-24

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, M.S., P.E., Jake Strohman, P.E.

DATE OF REVIEW: 2/16/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Submit a letter from the BPU indicating that an adequate supply of potable water is available at the metering point to satisfy the present and future requirements of the Vista West Water Company limited only by the capacity of the proposed transmission line.
2. The maximum diameter of large stones and boulders in the pipe trench backfill material shall be 8 inches.
3. Specify that the leakage shall not exceed 11.72 gallons per inch of pipe diameter per mile of length per 24 hours. (See Table 7 of AWWA Standard C600-77).

79-25
Permit issued
under 78-101 MRR

PERMIT TO CONSTRUCT

FH

mailed
2/13/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-26

Water Main to Paradise Valley
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities

(Last)

(First)

(Middle)

200 North David

(Street or P.O. Box)

Casper

Natrona

Wyoming 82601

(City)

(County)

(State)

to construct, install or modify a Water Distribution System

facility located in City of Casper

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 29, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

Mailed
5-4-79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-27

Grayrocks Dam & Reservoir

(Name of Facility)

This permit hereby authorizes the applicant:

Luhr Bros., Inc.

(Last)

(First)

(Middle)

P.O. Box 69

(Street or P.O. Box)

Columbia

Illinois 62236

(City)

(County)

(State)

to construct, install, or modify a stabilization pond

facility located in Sec. 6, T25N, R65W

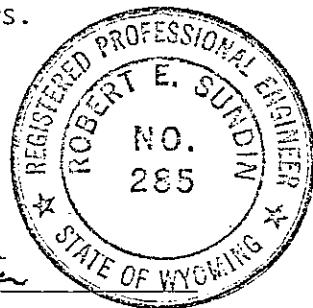
(Legal Description)

in the County of Platte, in the State of
Wyoming. This permit shall be effective for a period of two years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William P. O'Leary
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 2, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

541

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-28R

☐ Renewal

☐ Modified

Plain View Road

(Name of Facility)

This permit hereby authorizes the applicant:

The Bluffs Company

(Last)

(First)

(Middle)

425 Cole Shopping Center

(Street or P.O. Box)

Cheyenne

(City)

Laramie

(County)

Wyoming 82001

(State)

to construct, install, or modify a Sanitary Sewer between manholes PV #3A & PV #4
facility located in Seciton 21, T14, R66
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Quinn
Administrator
Water Quality Division

Robert E. Sardin
Director
Wyoming Dept. of Environmental Quality

February 28, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

mailed
2/20/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Section of Sewer Main in Plain View Road and Water Taps
in the Bluffs, Buffalo Hills Addition, Laramie County

ARCHITECT OR ENGINEER: ~~Frank M. Cole, P.E., 425 Cole Shopping Center, Cheyenne, WY~~

WATER QUALITY DIVISION REFERENCE NUMBER: 79-28

REVIEWING ENGINEER: Frank R. Harman
Frank R. Harman, M.S., P.E., Jake Strohman, P.E.

DATE OF REVIEW: 2/15/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION PENDING RECEIPT OF UNDERMENTIONED INFORMATION

COMMENTS:

- 1) Water Taps. Where water taps cross sewer mains specify that the water tap in each instance will cross above the sewer main with a minimum vertical separation of 18 inches.
- 2) If the project is to be constructed to meet the City of Cheyenne's Water and Sewer Lines Specifications as approved by the Wyoming Department of Environmental Quality, a statement to that effect shall be furnished to this Division.

PERMIT TO CONSTRUCT

☐ New
☐ Renewal
☒ Modified

Permit No. 79-29RR

Medicine Bow Water Distribution System
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Medicine Bow

(Last) (First) (Middle)

P.O. Box 156

(Street or P.O. Box)

Medicine Bow,

Carbon,

WY 82329

(City) (County) (State)

to construct, install, or modify a municipal distribution system

facility located in Sec. 5 & 8, T22N, R78W

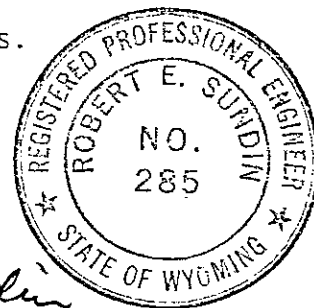
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of two (2) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 23, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

2-14-80

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Medicine Bow, (Water) Distribution System Improvements,
Medicine Bow, WY - Carbon County

ARCHITECT OR ENGINEER: Banner Associates, Inc., 309 So. 4th Street, Laramie, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 79-29R

REVIEWING ENGINEER: *Robert H. Pinther* Robert H. Pinther, M.S., P.E., Jake Strohmman, P.E.

DATE OF REVIEW: 3/28/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Revise the note by asterisk in "Parallel Line Detail" on sheet 2 of 2 of the plans to read:

In cases where it is not practical to maintain a ten foot separation between existing sewer and new water lines the following construction may be used when approved by the designing engineer:

The horizontal separation between the water and sewer main shall be as great as is practical and the water main shall be laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

2. Specify that the PVC 6" and 8" water mains shall be tested for hydrostatic pressure and leakage in accordance with AWWA Standard C600-77, Section 4-Hydrostatic Testing. The maximum allowable leakage shall be 0.55 gallons per hour per 1000 feet of 6 inch pipeline and 0.74 gallons per hour per 1000 feet of 8 inch pipeline.

mailed
3/14/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Medicine Bow (Water) Distribution System Improvements,
Medicine Bow, WY, Carbon County

ARCHITECT OR ENGINEER: Banner Associates, Inc., 309 So. 4th Street, Laramie, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 79-29

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, M.S., P.E., Jake Strohman, P.E.

DATE OF REVIEW: 3/5/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans shall bear the seal or signature of the designing engineer who is registered in the State of Wyoming.
2. Submit specification covering the construction of the 6" and 8" PVC water main. This should include, but not necessarily be limited to, the following:
 - a. Care in laying
 - b. Removal of stones for a depth of at least 6" below the bottom of the pipe.
 - c. Pressure and leakage testing
 - d. Disinfection
 - e. Jointing
 - f. Provision of adequately sized thrust blocks, tie rods or joints designed to prevent movement at all ties, bends and plugs.

FH mailed
3/14/77

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-30

☐ Renewal

☐ Modified

Dolling Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Walters

(Last)

Roy

(First)

O.

(Middle)

P. O. Box 219

(Street or P.O. Box)

Rawlins

(City)

Carbon

(County)

Wyoming 82301

(State)

to construct, install, or modify a Water Distribution & Sewage Collection

facility located in Section 8, T22N, R78W

(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Galarza
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 30, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

PERMIT TO CONSTRUCT

mailed
3/7/79

☒ New

Permit No. 79-31

☐ Renewal

☐ Modified

Plaza Del Range

(Name of Facility)

This permit hereby authorizes the applicant:

Del Range III

(Last)

(First)

(Middle)

3306 Meyer Ct., Suite 105

(Street or P.O. Box)

Cheyenne

(City)

Laramie

(County)

Wyoming 82001

(State)

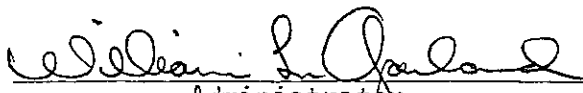
to construct, install, or modify a Water Distribution & Sewage Collection

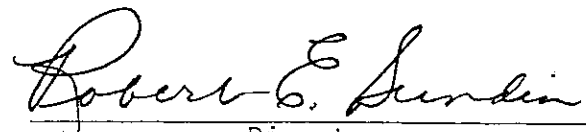
facility located in Section 22, T14, R66

(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

February 20, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

mailed
3/20/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-32R

Atlantic Rim Reservoir
(Name of Facility)

This permit hereby authorizes the applicant:

City of Rawlins
(Last) (First) (Middle)

P. O. Box 953
(Street or P.O. Box)

Rawlins Carbon Wyoming 82301
(City) (County) (State)

to construct, install, or modify a Raw Water Reservoir
facility located in Section 14, T20N, R88W
(Legal Description)

in the County of Carbon, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Ojala
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 16, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

mailed
3/7/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Rawlins, Atlantic Rim Reservoir, Rawlins, WY, Carbon County

ARCHITECT OR ENGINEER: Larry Lockey, Meurer, Serafini & Meurer, Inc., Denver, CO

WATER QUALITY DIVISION REFERENCE NUMBER: 79-32

REVIEWING ENGINEER: *Robert H. Pinther* Robert H. Pinther, M.S., P.E., *JL* Jake Strohman, P.E.

DATE OF REVIEW: 2/26/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION CONTINGENT UPON ISSUANCE & SUBMITTAL TO THIS DIVISION PRIOR TO START OF CONSTRUCTION A CHANGE ORDER OR ADDENDUM COVERING COMPLIANCE WITH THE COMMENTS SET FORTH BELOW AS PER OUR PHONE CONVERSATION 2/28/79 WITH COMMENTS: RICK GONCALVES OF MSM.

1. Is the Koppers metal paint specified on plan sheet 2 of 8 Glamorglaze 1200 of Glamorglaze 200?
2. Revise the last 2 sentences of Section 01011-17 Disinfection of Water Mains of the specifications to read: A water main leakage test shall be specified and the test shall be conducted in accordance with Section 4.2 - Leakage Test of AWWA Standard C-600-77. The allowable leakage shall be in accordance with Table 7 of this Standard.
3. AWWA Standard C600-68 Disinfection of Water Mains shall take precedent over the sterilization procedure in Section 02555-3.8 Sterilization of the specifications.
4. The AWWA Standard C-600 for leakage testing referred to in Comment 2 above shall take precedent over the leakage test procedure in Section 02555-3.7.5 Leakage Test of the specifications.
5. Submit one more copy of Sheet 5 of 8 showing $\frac{1}{8}$ inch screen on outlet and $\frac{1}{2}$ inch screen on reservoir overflow.
6. As per a letter of 2/26/79 to this Division from Kim Keaton, Rawlins Assistant City Engineer, a chlorination facility will not be provided at the Atlantic Rim Reservoir under this contract. The water will continue to be chlorinated at the existing facility at Peaking I Reservoir.
7. The City of Rawlins shall submit complete plans and specifications to this Division and obtain a permit to construct prior to starting work on any future chlorination facility.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 18, 1980

Mr. James C. Gores
625 E. Madison, Suite 5
Riverton, WY 82501

RE: Canyon Campground Recreational Vehicle Park, Hot Springs
County, #79-33RR

Dear Mr. Gores:

Thank you for your reply to our letter of January 29, 1980.
As a result of your answer, we are sending your plans back
to you until you submit again next year.

If you have any questions, please do not hesitate to contact
this office.

Sincerely,

A handwritten signature in cursive script that reads "M. Robin Collins".

M. Robin Collins, P.E.
Northwest District Engineer

Withdrawn
3-18-80
Plans returned
3-18-80



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 29, 1980

Mr. James C. Gores
625 E. Madison, Suite 5
Riverton, WY 82501

RE: Canyon Campground Recreational Vehicle Park, Hot
Springs County, #79-33

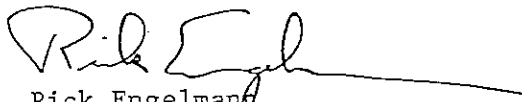
Dear Mr. Gores:

Our records indicate your application for a permit to construct for the above referenced facility has not been resubmitted to this office. Please indicate below the status of your application.

- 215
- ☐ The application will not be resubmitted. The application is to be removed from DEQ files.
- ☐ The application will be resubmitted within 30 days.
- ☐ The facility has been constructed or is under construction.
- ☒ Other remarks on hold 1 yr - human prob.

If this letter is not returned within 30 days, your application will be removed from our files.

Sincerely,


Rick Engelman
District Engineer

RE/ms

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: CANYON CAMPGROUND - RV PARK

OWNER: MR. & MRS. LARRY TALOVICH - 620 MAIDEN, THERMOPOLIS, WYO. 82443

ARCHITECT OR ENGINEER: J.H. HIBSMAN, P.E.
ARIX, 625 E. MADISON, SUITE 5
RIVERTON, WYO. 82501
WATER QUALITY DIVISION REFERENCE NUMBER: 79-33RR

REVIEWING ENGINEER: RICK ENGELMANN



DATE OF REVIEW: MAY 9, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

GENERAL:

1. There seems to be some confusion about the well permit: You are no doubt dealing with the State Engineers Office in Cheyenne. We, in addition, have regulations applying to wells used for public water supplies. See Sec. 3.2 of the '68 Ten State Standards, or Sec. 3.2 of the '76 Ten State Standards.
2. We still need a full reply to comment 3.b. of the 19 February review.

WATER DISTRIBUTION SYSTEM:

1. The proposed blowoff assembly is unacceptable. The blowoff line must extend above grade and discharge through a downward turned, screened elbow that is a minimum of one foot above grade. The hole in the elbow is also not permissible.
2. We still need material and installation spec.s on the service connections. This would include spec.s for the corporation stop, shutoff valve, and curb stop.

Disposal System:

The "Wyoming Minimum Standards for Private Sewage Disposal Systems" were never more than Wyoming Public Health Department suggested standards. The Wyoming Public Health Department authority over wastewater systems was ended with the creation of D.E.Q., and we do not use these standards. Furthermore, until the Hot Springs County subdivision ordinances actually go into effect, we will have no assurance that the park will be used by RV's only.

On the basis of the above we are sticking to the 350 gpd per lot figure. With 36 lots you will need about 9000 gallons of septic tank capacity and 11000

CANYON CAMPGROUND - RV PARK
REF: 79-33R
RICK ENGELMANN
MAY 9, 1979
NOT AUTHORIZED

- 2 -

square feet of leach bed. There is one optimistic factor in all of this: If the County ordinances do go into effect, then the Talovich's may be able (with our approval) to serve additional lots with the 9000 gallon septic/11000 square foot leach bed system.

RHE:rhe

26Q

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: CANYON CAMPGROUND - RECREATION VEHICLE PARK

ENGINEER: J.H. HIBSMAN, P.E.
C.E. MAGUIRE, INC.
625 E. MADISON, SUITE 5
RIVERTON, WYO. 82501.

OWNER: MR. & MRS. LARRY TALOVICH
620 MAIDEN
THERMOPOLIS, WYO. 82443

WATER QUALITY DIVISION REFERENCE NUMBER: 79-33R

REVIEWING ENGINEER: RICK ENGELMANN RE

DATE OF REVIEW: FEBRUARY 19, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

GENERAL

1. It is our understanding that this application covers the entire water distribution system for the park, sewer sections from m.h. 1 to m.h.2, m.h.2 to m.h.3, and m.h.3 to m.h. 7, and the sewage disposal system. It is not intended to apply the balance of the sewage collection system and the well supply. Is this correct?
2. It should be understood that before the well supply is constructed, engineered plans and spec.s for it must be approved by the department.
3. We need the following:
 - a. The spec.s should be more specific about fill lifts, type of compaction appropriate for the various pipe zones, and protection of pipe from mechanical compactors. (p. D1, B24).
 - b. If jetting is to be a compaction option, the jetting procedure must be specified and the criteria the engineer would use in judging the suitability of the method (types of native, bedding and backfill material appropriate for jetting, etc.) must be spelled out. (p. D1, B24).
 - c. Specification of the number of density tests per 1000 lineal feet. (p. D1, B25).

REVIEW:
CANYON CAMPGROUND - RECREATION VEHICLE PARK
ENGINEER: J.H. HIBMAN, P.E. - C.E. MAGUIRE, INC.
79-33R
BY: RICK ENGELMANN
FEBRUARY 19, 1979
NOT AUTHORIZED.

- 2 -

- d. All drawings signed by the design P.E..
- e. Some clarification of the approved water and sewer pipes for the project - there are many types and classes of pipe listed in the spec.s with blanks that have not been filled in. What minimum classes are acceptable?

WATER DISTRIBUTION SYSTEM

We need the following:

- a. The working pressure at the lowest point of the water line.
(p. D2, B26)
- b. Specifications for valves.
- c. There must be flushing hydrants or blowoff assemblies at all dead-ends.
- d. Specifications on water service connections. Note that the riser must extend at least 4" above grade. See enclosed Chapter III reg.s, Appendix A.

SEWERAGE

- 1. Department standard for infiltration/exfiltration is a maximum of 200 gallons per inch Ø per mile of pipe.

The following are needed:

- a. Manholes at end of each sewerline.
- b. Sewer service connections to main line must use single piece wye branches only. The riser pipe must extend at least 4" above grade and be protected by a concrete collar. See Chapter III reg.s, Appendix A.

DISPOSAL SYSTEM

- 1. According to Department policy, the disposal system must be designed to handle the volume of wastes generated by a residential trailer park (see my letter of 1/26/79). Contrary to what Note 2 of Sheet 1 states, the disposal system is not adequate for the whole park. Assuming 30,000 + gpd (based on 87 lots, 3.5 people per lot, 100 gpcd), there must be a minimum of 24,000 gallons of septic tank capacity, based on the U.S. Public Health Service Manual of Septic Tank Practice (PHS Pub. 526) criteria.

- 2. The following are needed:

REVIEW

CANYON CAMPGROUND - RECREATION VEHICLE PARK
ENGINEER: J.H. HIBMAN, P.E. - C.E. MAGUIRE, INC.
79-33R

BY: RICK ENGELMANN

FEBRUARY 19, 1979

NOT AUTHORIZED.

- 3 -

- a. The data from the percolation tests run for the seepage bed.
 - b. Specifications for the septic tank and dosing siphon.
3. Please note: The Publ. Health Service criteria for a disposal field sewage application rate ($\frac{5}{\sqrt{t}}$, where t equals the percolation rate (min./inch)) assumes a standard disposal field is being used, i.e. pipes in individual trenches. For seepage beds, the department divides the above rate by 1.5 as a safety factor.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: CANYON CAMP GROUND - RECREATION VEHICLE PARK

OWNER: MR. & MRS. LARRY TALOVICH, 620 MAIDEN, THERMOPOLIS, WYO. 82443.

ARCHITECT OR ENGINEER: JAMES C. GORES
C.E. MAGUIRE, INC.
625 E. MADISON, SUITE 5, RIVERTON, WYO. 82501.

WATER QUALITY DIVISION REFERENCE NUMBER:

79-33

REVIEWING ENGINEER: RICK ENGELMANN

RE

DATE OF REVIEW: JANUARY 26, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Dear Jim:

Due to the fact that Wyoming has no control over non-discharging facilities once they are built, we have had trouble with RV parks being used for permanent trailer homes. There have been cases of severely overloaded RV park septic systems caused by permanent trailer housing. For a facility such as the proposed park, where there are individual sewer and water hook-ups for each space, we insist on sewerage and sewage treatment facilities to be sized for 350 gpd per lot. For the proposed camp this will mean design flow of 30,000 gpd plus the flow from the tent area and dump station.

Because the above may cause a major change in the proposal, I have done only a rough review of the project. Some of the problems noted were:

1. There were no written specifications for materials and construction.
2. Since it appears that a well is part of this project, we need plans and specs on well construction, development, etc. See the '68 Ten State Standards, parts 3 and 6.2.
3. The blow-off assemblies are not acceptable. See '68 Ten State Standards, Sect. 8.5.3. The outlet must extend above ground with a downward screened elbow (or capped), or it could be a hydrant.
4. We need three copies of all submittals. One copy will go back to the engineer on approval, one is for DEQ Cheyenne, one is for DEQ, Lander.

Respectfully,

RE

Rick Engelmann,
ENVIRONMENTAL ENGINEER II

PERMIT TO CONSTRUCT

mailed
to 8-3/23/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-34R

HERITAGE HOMES FOUR PLEX (Lots 1 & 2, Block 1)
(Name of Facility)

This permit hereby authorizes the applicant:

HERITAGE HOMES
(Last) (First) (Middle)
P.O. Box 1504
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a sewage treatment
facility located in Section 24, T49N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of two (2) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Galand
Administrator
Water Quality Division

Robert E. Lurdin
Director
Wyoming Dept. of Environmental Quality

cc: Jim Taylor, Larson & Brimacombe
March 22, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Heritage Homes, 4-Plex; Wastewater Treatment Facility

ARCHITECT OR ENGINEER: James Taylor
Larson & Brimacombe
1901 Energy Court, Suite 120
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-34

REVIEWING ENGINEER: Dan H. Kim, Tom Mueller

DATE OF REVIEW: February 13, 1979

ACTION: Not Authorized for Construction (see comments)

COMMENTS:

1. Depth to the highest known groundwater table or impervious layer at the proposed leach field should be identified.
2. Please indicate the distances from the sewage treatment facility to:
 - a. any water well
 - b. drinking water line
3. Minimum distance between trenches must be six feet, not between pipes.
4. What is the maximum size of the graded gravel in the leach field?

3-22-84
Lesamie



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 22, 1984

Mr. Charley Johnson
4414 East 10th Street
Cheyenne, WY 82001

Dear Mr. Johnson:

On March 13, 1984, a status letter was sent to you concerning a permit to construct, reference number 79-35R, facility name Charley Johnson, MHP. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules & Regulations, must be followed.

Sincerely,

A handwritten signature in dark ink, appearing to read "LeRoy C. Feusner", is written over a horizontal line.

LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

LCF/nc

cc: Jon Anderson
AVI Engineers
1700 Westland Road
Cheyenne, WY 82001

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

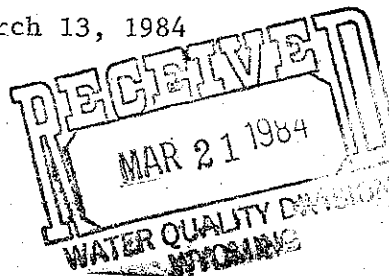
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984



Mr. Charley Johnson
4414 E. 10th Street
Cheyenne, WY 82001

Dear Mr. Johnson:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name:	Charley Johnson, MHP, Septic Tank/Drainfield
DEQ/WQD Reference Number:	79-35R
Engineering Consultant:	Jon Anderson, AVI Engineers
DEQ/WQD Reviewing Engineer:	Robert Pinther
Date of DEQ/WQD Review:	April 20, 1979

Please indicate below the status of your application and return this form to our office:

☒ The application will not be resubmitted as the proposed project has been cancelled.

☐ The application will be resubmitted within 30 days.

☐ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

☐ Other remarks _____

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

cc: Jon Anderson
AVI Engineers
1700 Westland Road
Cheyenne, WY 82001

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

Mr. Charley Johnson
4414 E. 10th Street
Cheyenne, WY 82001

Dear Mr. Johnson:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name:	Charley Johnson, MHP, Septic Tank/Drainfield
DEQ/WQD Reference Number:	79-35R
Engineering Consultant:	Jon Anderson, AVI Engineers
DEQ/WQD Reviewing Engineer:	Robert Pinther
Date of DEQ/WQD Review:	April 20, 1979

Please indicate below the status of your application and return this form to our office:

☐ The application will not be resubmitted as the proposed project has been cancelled.

☐ The application will be resubmitted within 30 days.

☐ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

☐ Other remarks _____

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



LeRoy C. Feusner, P.E.
Southeast District Supervisor
Water Quality Division

cc: Jon Anderson
AVI Engineers
1700 Westland Road
Cheyenne, WY 82001

By
m...
2-11

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Charley Johnson Mobile Home Park, Laramie County

ARCHITECT OR ENGINEER: Jon L. Anderson, CSSA, Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 79-35R

REVIEWING ENGINEER: *Robert H. Pinther*
Robert H. Pinther, P.E., M.X.

DATE OF REVIEW: April 20, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

As-Built Facilities - Water System

1. Are any of the water lines of the plastic type? If so, are they all of the non-toxic type for potable water bearing the seal of approval of the National Sanitation Foundation?
2. Is the well water supply in compliance with Section 2.8 Pressure Tanks and Section 2.9 Well of Chapter III, Wyoming Water Quality Rules and Regulations, 1976?

Construction Plans - Sewer System

1. Cast iron or schedule 40 PVC pipe shall extend at least 5 feet from the septic tank inlet and outlet.
2. Both manhole covers for the septic tank shall be 20 inches least dimension.

General

1. Submit in duplicate an application for a permit to construct the above named mobile home park. Forms are enclosed.
2. Submit two copies of sheet 2, revised, of the plans.

Enclosures: 2 permit applications

mailed
2/28/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Charley Johnson Mobile Home Park, Laramie County, WY

ARCHITECT OR ENGINEER: John L. Anderson, CSSA, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-35

REVIEWING ENGINEER: *Robert H. Pinther* Robert H. Pinther, M.S., P.E., Jake Strohman, P.E.

DATE OF REVIEW: 2/16/79

ACTION: Reviewed (1) "AS-BUILT" plans covering existing septic tank, drainfield and sewage collection system with hook-ups for 4 mobile homes,
(2) Plans for adding another septic tank & drainfield enlargement
COMMENTS: and establishment of a mobile home park. NOT AUTHORIZED FOR CONSTRUCTION.

"As-Built" Plans

1. Are the sewer mains at least 6 inches in diameter and are they sloped in compliance with the table under "1.3 Slope" in Appendix A, "Minimum Design Standards for Mobile Home Park Water & Sewage Facilities" in Chapter III of the Wyoming Water Quality Rules & Regulations?
2. Does the rate of infiltration or exfiltration into or out from the sewer mains exceed the maximum allowable rate of 200 gallons per inch pipe diameter per mile per day?
3. Does the maximum vertical deflection of the sewer main exceed the maximum allowable deflection of 5% of the internal pipe diameter?
4. Is each sewer riser provided with a non-breakable water tight cap or plug?
5. Is the drainfield piping at least four feet above the seasonal high groundwater table?
6. Is there a separation of at least 5 feet between all water and sewer service risers?

Construction Plans

1. Cast iron or schedule 40 PVC pipe shall extend at least 5 feet from the septic tank inlet and outlet.
2. PVC pipe shall be sand bedded to a depth of four inches beneath the pipe and to a depth of six inches over pipe.

3. The following items shall be included in the septic tank design:
 - a. The inlet elevation shall be 3 inches above the outlet.
 - b. The access manhole covers shall be 20 inches least dimension.
4. The minimum distance between drainfield trenches shall be 6 feet.
5. The disposal field gravel shall be a minimum size of $\frac{1}{2}$ inch and not greater than $2\frac{1}{2}$ inches.
6. Cast iron or schedule 40 PVC pipe shall extend at least 5 feet from the septic tank inlet and outlet.

THIS IS NOT A FINAL REVIEW

cc: City-County Health Department, 315 W. 20th Street, Cheyenne, WY 82001

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed
2/20/79

☒ New

☐ Renewal

Permit No. 79-36R

☐ Modified

CELOTEX CORPORATION SEWAGE DISPOSAL FACILITY

(Name of Facility)

This permit hereby authorizes the applicant:

CELOTEX CORPORATION

(Last)

(First)

(Middle)

P.O. BOX 590

(Street or P.O. Box)

CODY,

WYOMING

82414

(City)

(State)

(Zip Code)

to construct, install, or modify a SEPTIC TANK - DRAINFIELD

facility located in SEC. 29 T53N R101W

(Legal Description)

in the County of PARK, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

FEBRUARY 8, 1979.

Date of Issuance

GRAHAM, DIETZ & ASSOCIATES
P.O. BOX 348
CODY, WYO. 82414

28Q

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: CELOTEX CORP. SEWAGE DISPOSAL FACILITIES
OWNER: CELOTEX CORP., P.O. BOX 348, CODY, WYO. 82414

ARCHITECT OR ENGINEER: DARVIN DIETZ, P.E. GRAHAM, DIETZ, AND ASSOC.
P.O. BOX 348
CODY, WYO. 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 79-36

REVIEWING ENGINEER: RICK ENGELMANN R E

DATE OF REVIEW: JANUARY 26, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

We need the following:

- a. A site plan showing building, system layout, distances to property lines, etc. (see sect. 3.1 in Appendix B of our Chapter III reg.s), and approx. ground slope.
- b. Drainfield pipe trenches (not pipes) must be separated by a minimum of 6' of undisturbed earth.

Except for these items, everything looks quite adequate.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed to
L. 2/6/79*

☒ New

☐ Renewal

Permit No. 79-37R

☐ Modified

STAUFFER CHEMICAL SEPTIC TANK - LEACH FIELD

(Name of Facility)

This permit hereby authorizes the applicant:

STAUFFER CHEMICAL COMPANY

(Last)

(First)

(Middle)

P.O. BOX 513

(Street or P.O. Box)

GREEN RIVER,

WYO.

82935

(City)

(State)

(Zip Code)

to construct, install, or modify a SEPTIC TANK-LEACH FIELD

facility located in SEC 15 T20N R109W

(Legal Description)

in the County of SWEETWATER, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland

Administrator
Water Quality Division

Robert E. Sundin

Director
Department of Environmental
Quality

JANUARY 30, 1979

Date of Issuance

NELSON ENGINEERING
P.O. BOX 365
GREEN RIVER, WYO. 82935

DEP

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: STAUFFER CHEMICAL SEPTIC TANK - LEACH FIELD

ENGINEER: NELSON ENGINEERING
P.O. BOX 365
GREEN RIVER, WYO. 82935

OWNER:

WATER QUALITY DIVISION REFERENCE NUMBER: 79-37

REVIEWING ENGINEER: DOUG CRAIG *D.C.*

DATE OF REVIEW: JANUARY 23, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Please fill out and submit an "Application for a Permit to Construct".
2. I strongly suggest that a cleanout be installed between the septic tank and the washroom. This would expedite maintenance and repairs should the line plug.

c.c. M.S. Litus
P.O. Box 513
Green River, Wyo. 82935.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

mailed
2/20/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-38

LOT 23 COMPANY RESTAURANT

(Name of Facility)

This permit hereby authorizes the applicant:

LOT 23 COMPANY

(Last)

(First)

(Middle)

P.O. BOX 2467

(Street or P.O. Box)

JACKSON

WYOMING

83001

(City)

(State)

(Zip Code)

to construct, install, or modify a SEPTIC TANK-ELEVATED LEACH FIELD
facility located in SEC22 T41N R117W
(Legal Description)

in the County of TETON, in the State of Wyoming.

This permit shall be effective for a period of 2 years from
the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Department of Environmental
Quality

FEBRUARY 7, 1979

Date of Issuance

PETER M. JORGENSEN
P.O. BOX 1142
JACKSON, WYO. 83001

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-39RRR

☐ Renewal

☐ Modified

Septic Tank - Mountain View Subdivision #2
(Name of Facility)

This permit hereby authorizes the applicant:

Chopping, Porter
(Last) (First) (Middle)
Chopping Motor Lease, Inc.
1625 N. Highway 26
(Street or P.O. Box)

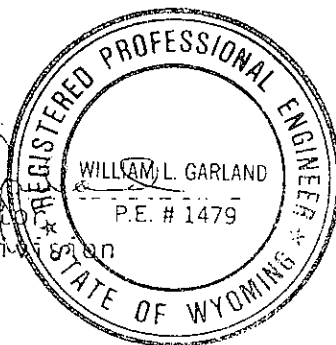
Riverton, Wyoming 82501
(City) (County) (State)

to construct, install, or modify a septic tank - leach field
facility located in Sec. 30, T. 1 N., R. 4 E.
(Legal Description)

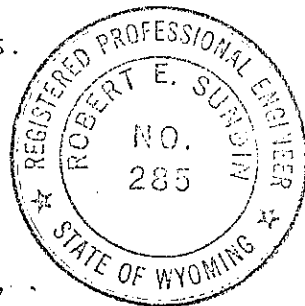
in the County of Fremont, in the State of
Wyoming. This permit shall be effective for a period of two years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



January 25, 1980
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

Response

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: Mountainview Subdivision #2 Septic Tank - Drainfield

ENGINEER: Elmo G. Peterson, P. E.
Wind River Engineers
2333 Rose Lane
Riverton, WY 82501

OWNER: Porter Chopping
Chopping Motor Lease, Inc.
1625 N. Highway 26
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-39RR

REVIEWING ENGINEER: Rick Engelmann

R. S.

DATE OF REVIEW: December 19, 1979

ACTION: NOT AUTHORIZED.

COM TS:

Some of the comments which follow could have shown up on the previous review. However, because of the very slow percolation rates, I thought the whole thing might have to be redesigned, so the comments were considered superfluous at the time.

1. I am confused about the high percolation rate area. The subdivision plat provided shows only half of the proposed leach field in the "high infiltration area." Does this high infiltration strata extend below grade in the rest of the leach field area?
2. What is the level of groundwater in this area? I am a bit concerned because of the depth of the leach pipes.
3. We will need the following:
 - a. Vents for the leach field - it will need these since it is so deep in the ground.
 - b. The field is inadequately sized - for leach beds, the $5/\sqrt{E}$ application rate must be divided by $2/3$. This is in the Uniform Plumbing code standards. Therefore, the field size must be 1550 square feet for a percolation rate of 16 minutes per inch (Note that there is a difference between a leach bed and a standard leach field (pipes in trenches)).

REVIEW OF PLANS & SPECS
MOUNTAINVIEW SUBDIVISION #2 SEPTIC TANK-DRAINFIELD
DECEMBER 19, 1979
PAGE TWO

4. Recommendation: I am a bit concerned with placement of the system under the parking lot. Mr. Chopping should be aware that heavy vehicles should not be driven over this area.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

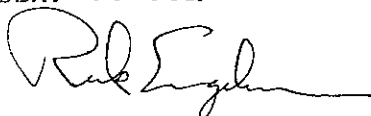
PROJECT: Mountainview Subdivision No. 2 Septic Tank - Drainfield

ENGINEER: Elmo G. Peterson, P. E.
Wind River Engineers
2333 Rose Lane
Riverton, WY 82501

OWNER: Porter Chopping
Chopping Motor Lease, Inc.
1625 N. Highway 26
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-39R

REVIEWING ENGINEER: Rick Engelmann



DATE OF REVIEW: November 9, 1979

ACTION: NOT AUTHORIZED.

CC INTS:

The subdivision site apparently has a real problem with tight soils. Because the percolation rate is so low (75 minutes per inch), we cannot approve subsurface disposal (standard trenches or seepage beds) for this site. As is noted on Page 8 of the U. S. Public Health Service Pub. 526 (see enclosed), soils with percolation rates of over sixty minutes per inch are not acceptable for standard absorption systems.

There are several possible options in this matter. One is to build an elevated leach field (also known as the mound system), or an evapotranspiration bed. Due to space considerations, the former may be more applicable to the site.

I have enclosed some draft regulations which may be of some use.

089

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: MOUNTAINVIEW SUBDIVISION #2 SEPTIC TANK-DRAINFIELD

OWNER: PORTER CHOPPING- CHOPPING MOTOR LEASE, INC. 1625 N. Hwy. 26, RIVERTON, WYO. 82501

ARCHITECT OR ENGINEER: ELMO G. PETERSON, P.E.
WIND RIVER ENGINEERS
2333 ROSE LANE, RIVERTON, WYO. 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-39

REVIEWING ENGINEER: RICK ENGELMANN V.P.E.

DATE OF REVIEW: JANUARY 29, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. We do not permit parking areas, paved or otherwise, to be located over drainfields. The ground surface will seal, freezing of the field may occur, and it is possible for pipe to collapse.
2. We need the following information:
 - a. More complete installation spec.s for sewers (trenching, compaction in the zone above the pipe), manholes, and septic tank.
 - b. Percolation rates for the three new perc. holes. (We already have the numbers for perc. holes A-H).
 - c. Manufacturer's info. on the proposed septic tanks.

FH mailed 2/13/79

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 79-40

Sunrise Hills #7 Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities

(Last) (First) (Middle)

200 North David

(Street or P.O. Box)

Casper

Natrona

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a Water Distribution & Sewage Collection

facility located in City of Casper

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Janda
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

January 30, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

mailed
3/21/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-41

Christiansen Diamond Products, U.S.A.
(Name of Facility)

This permit hereby authorizes the applicant:

Larson Construction Company
(Last) (First) (Middle)
P. O. Box 1527
(Street or P.O. Box)
Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install or modify a Commercial Subsurface Disposal
facility located in Section 28, T34N, R80W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 13, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

FH *mailed*
2/13/79

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-42

☐ Renewal

☐ Modified

Sunup Ridge - Blocks 13-19

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Glenrock

(Last)

(First)

(Middle)

Town Hall

(Street or P.O. Box)

Glenrock

(City)

Converse

(County)

Wyoming 82637

(State)

to construct, install, or modify a Water Distribution & Sewage Collection

facility located in Section 3, T33, R75

(Legal Description)

in the County of Converse, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Galarza
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

January 30, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

PERMIT TO CONSTRUCT

mailed
3/6/79

☒ New
☐ Renewal
☐ Modified

Permit No. 79-43

Martin Clark - Shop & Ofc. Building

(Name of Facility)

This permit hereby authorizes the applicant:

Clark Martin
(Last) (First) (Middle)

P. O. Box 1325
(Street or P.O. Box)

Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install, or modify a Small Wastewater Facility (Commercial)
facility located in Ray Hoffman Subdivision, Casper
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William J. O'Connell
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

February 21, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



79-44

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

3144
TELEPHONE 307-332-3017

February 5, 1979.

Corbett/Associates Architects and Planners,
P.O. Box 1009
Jackson, Wyoming, 83001

Attn: Robert W. Corbett

Dear Mr. Corbett:

Re: Water and Sewer System for Lot 328, Rafter
J Subdivision

We have received in this office a plan of the above-said water and sewer system.

A review of your proposed plans cannot be made at this time.

The "Wyoming Water Quality Rules & Regulations, 1976, Chapter III" requires that all plans and specifications be signed or sealed by an engineer registered in the State of Wyoming. Your submission will not be reviewed until this is done.

Three copies of the plans and specifications are needed along with an "Application for Permit to Construct".

Please feel free to contact me if any question comes up.

Sincerely,

David W. Hill

David W. Hill,
DISTRICT SUPERVISOR.

Enc. - Chapter III
3 Applications for Permit to Construct



79-45

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

March 2, 1979

Mr. Bill C. Burke
P.O. Box 809
Newcastle, WY 82701

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Dear Mr. Burke:

This office has received your letter requesting approval of the water line/fire hydrant installation in your mobile home park, and the engineering drawing which accompanied the letter. I regret to say that this Division cannot, at this time, approve the installation. The following deficiencies exist:

- 1) The water line has apparently been constructed without the issuance of a Permit to Construct from this Division. Such construction is a violation of State Law (W.S.35-11-301).
- 2) I have been in communication with Mr. Jim Fletcher, Newcastle City Engineer, on this matter and he has apprised me of the history and circumstances of this situation. It is generally against the policy of the Water Quality Division to allow construction of dead end water mains, particularly where such arrangements can be avoided. Therefore, the two water mains serving your mobile home park will have to be joined to form a loop before they will be approved. You should be informed, however, that no further construction on this water system is to take place without a Permit to Construct. This Division will take appropriate enforcement action under W.S.35-11-091 if any further unauthorized construction takes place.
- 3) Your drawing indicates that Class 160 PVC pipe was used in the water main. This Division does not routinely approve Class 160 pipe, unless the appropriate engineering analysis is supplied. The drawing also fails to supply other important

Mr. Bill C. Burke
March 2, 1979

information, such as: specifications for valves, hydrants, thrust blocks, pipe bedding; method of pipeline disinfection; expected distribution pressure in the service area; and surrounding facilities. Without such information, the water line cannot be approved.

I am enclosing a copy of Chapter 3, Wyoming Water Quality Rules and Regulations, which describes the procedures for obtaining a Permit to Construct. I have also enclosed some blank application forms. If you have any questions on this, feel free to contact me.

Yours truly,

Tom Mueller

Tom Mueller
District Engineer

TM/lb

cc: Mr. Jim Fletcher, Plains Engineering

llg

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

3144
TELEPHONE 307-332-~~3047~~

January 30, 1979.

Mr. Peter M. Jorgensen,
P.O. Box 1142
Jackson, Wyo. 83001.

Attn: Stan Zaist

Dear Stan:

Re: MARBLETON WATER LINE EXTENSION 79-46

Dear Stan:

The "as built" water line extension appears to be satisfactory and appears to meet our minimum design standards.

I do have some questions and problems concerning the future extensions shown on your plans as follows:-

1. If the town does wish to build these extensions in the near future, they should apply for a Permit to Construct by filling in and submitting the "Application for Permit to Construct".
2. More valves are needed at the intersections between the existing system and the proposed extensions.

If any question comes up by either yourself or the town, please feel free to contact me.

Sincerely,

David W. Hill

David W. Hill,
DISTRICT SUPERVISOR.

C.C. Town of Marbleton
P.O. Box 611, Big Piney, Wyo. 83113
Attn: Ralph Holladay

Enc. 2 "Applications for Permit to Construct to Town"

cc: John A. Proffit, P.E.
White Engineering & Surveying
P. O. Box 746
Evanston, WY 82930

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-47RR

☐ Renewal

☐ Modified

UINTA COUNTY YOUTH CAMP SEWAGE SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant:

Uinta County Youth Camp
(Last) (First) (Middle)

228 9th Street

(Street or P.O. Box)

Evanston, Wyoming 82930

(City)

(County)

(State)

to construct, install, or modify a septic tank - leach field

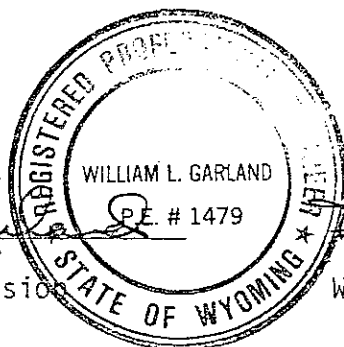
facility located in Sec. 2, T. 12 N., R. 117 W., -

(Legal Description)

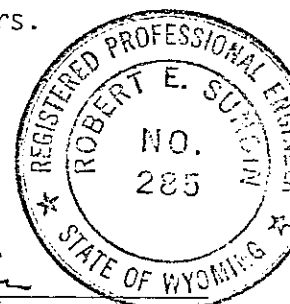
in the County of Uinta, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



6-15-79

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

1

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: UINTA COUNTY YOUTH CAMP SEWAGE SYSTEM
SEC. 2, T.12N, R.117W. UINTA COUNTY

ENGINEER: JOHN A. PROFFIT, P.E. UINTA ENGINEERING & SURVEYING
P.O. BOX 746
EVANSTON, WYO. 82430

OWNER: UINTA COUNTY YOUTH CAMP
228 9TH ST.
EVANSTON, WYO. 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 79-47R

REVIEWING ENGINEER: ^{duff} DAVID W. HILL

DATE OF REVIEW: FEBRUARY 26, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

- 1) You indicate a depth of five feet to the seasonal high groundwater table. The bottom of the leach field must be at least four feet above the seasonal high groundwater table.

80
70

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307) 332-3144

PROJECT: UINTA COUNTY YOUTH CAMP SEWAGE SYSTEM
SEC. 2, T.12N R117W UINTA

ENGINEER: JOHN A. PROFFIT, P.E.

UINTA ENGINEERING & SURVEYING
P.O. BOX 746
EVANSTON, WYO. 82950

OWNER: UINTA COUNTY YOUTH CAMP
228 9TH STREET
EVANSTON, WYO. 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 79-47

REVIEWING ENGINEER: DAVID W. ^{du}HILL

DATE OF REVIEW: FEBRUARY 9, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. What is the depth to the seasonal high groundwater table in the leach field area?
2. What slope is used in the leach field?
3. How deep is the sewer-line buried? Especially across the access road.

mailed
4/16/79

PERMIT TO CONSTRUCT

☒ New

Permit No. 79-48R

☐ Renewal

☐ Modified

WEST VALLEY SUBDIVISION, CITY OF GILLETTE
(Name of Facility)

This permit hereby authorizes the applicant:

Wayne Haug
Scott Engineering

(Last)

(First)

(Middle)

Box 2097

(Street or P.O. Box)

Gillette

Campbell

Wyoming 82716

(City)

(County)

(State)

to construct, install, or modify a water distribution and sewage collection

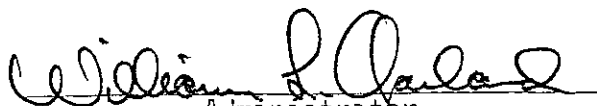
facility located in Section 21, T.50N., R.72W.

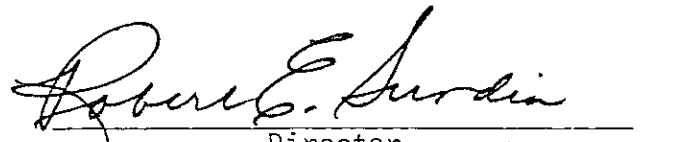
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of two (2) years
from the date of issuance of this permit not to exceed five (5) years.

cc: Dove, Inc., Gillette, Wyoming 82716

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

April 4, 1979
Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT:

West Valley Subdivision - Gillette, Campbell County

ARCHITECT OR ENGINEER:

Wayne Haug
Scott Engineering Co.
P.O. Box 2097
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER:

79-48

REVIEWING ENGINEER:

Dan H. Kim, Tom Mueller

DATE OF REVIEW:

February 25, 1979

ACTION:

Not Authorized for Construction

COMMENTS:

1. A letter of verification from the City of Gillette is needed, indicating that the city can provide adequate water and sewer services to the subdivision.
2. It is not clear which lines are the proposed water and sewer lines and which lines are the existing pipes. Please clarify.

More information is also needed concerning the existing lines into which the proposed lines will be tied, including size, existing capacity of the pipe, etc.

3. Deflection tests should be performed on all flexible sewer pipe. The maximum deflection allowed should not exceed 5% of the pipes internal diameter (i.e., Go-No-Go deflection gauge).

PERMIT TO CONSTRUCT

mailed to J.
3/7/79

☒ New

Permit No. 79-49

☐ Renewal

Ref: 78-586, 78-587, 78-588, 78-664 (as built)

☐ Modified

HIGHLAND URANIUM MINE - TAILINGS BASIN DAM ENLARGEMENT (PHASE II)
(Name of Facility)

This permit hereby authorizes the applicant:

Exxon Minerals Co., Highland Uranium Operations

(Last)

(First)

(Middle)

P.O. Box 3020

(Street or P.O. Box)

Casper

(City)

Converse

(County)

Wyoming 82602

(State)

to construct, install, or modify a tailings pond evaporation

facility located in Sections 22 and 27, T.36N., R.72W.

(Legal Description)

in the County of Converse, in the State of

Wyoming. This permit shall be effective for a period of two (2) years

from the date of issuance of this permit not to exceed five (5) years.

Ref: 78-586, Buffalo Shaft No. 1 Evaporation Reservoir

78-587, Buffalo Shaft No. 2 Evaporation Reservoir

78-588, Enlargement Tailings Basin Reservoir (Phase I)

78-664, Exxon Holding Pond No. 1

AUTHORIZED BY:

William L. Ojala

Administrator
Water Quality Division

Robert E. Durbin

Director
Wyoming Dept. of Environmental Quality

March 5, 1979

Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements."

08.
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

*replaced
by
79-181*

PROJECT: MOBILE CORRALS

ARCHITECT OR ENGINEER: INDO-AMERICAN ENGINEERING
P.O. BOX 1813
ROCK SPRINGS, WYO. 82901

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-660~~ 179-50

REVIEWING ENGINEER: DOUG CRAIG D.C.

DATE OF REVIEW: JANUARY 30, 1979

ACTION: NOT AUTHORIZED TO CONSTRUCT

COMMENTS:

1. Cleanouts or manholes are required at all terminal lines.
2. Blowoff valves are required at all water line terminations.
3. Gate valves should be provided at locations which allow isolations of no more than 25 units.
4. Sewer profiles should be provided.
5. Please provide cleanout details.
6. Provide drawings and spec.s of blowoff valves.
7. Indicate water line pressures.
8. Label all sewer line sizes.
9. Include hydrant details.
10. Provide detailed installation spec.s.
11. Provide detailed crossing spec.s.
12. Provide spec.s for water and sewer leakage tests.
13. Letter from city - already provided.
14. Since this project is different from the original design which we have issued a permit for, submit a new application for a permit to construct. I have enclosed a blank form.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

3144
TELEPHONE 307-332-3007

January 31, 1979.

Indo-American Engineering
P.O. Box 1813
Rock Springs, Wyo. 82901.

Dear Dinesh:

Here is a copy of the initial review I made on your re-submittal of Gosar Trailer Courts. Although we previously discussed the review, a written review is necessary.

If you should have further questions, do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Doug Craig".

Doug Craig,
ENVIRONMENTAL ENGINEER.

DC/jky

Enc.